

FILE 'HCAPLUS' ENTERED AT 08:22:52 ON 29 MAY 2007

L1 311474 S ANTIBODY  
L2 4617 S (BETA-GLUCAN)  
L3 754497 S CANCER OR TUMOR OR NEOPLAS?  
L4 146686 S MONOCLONAL  
L5 68113 S GD2 OR CD20 OR EGFR OR HER2 OR NEUROBLASTOMA OR MELANOMA OR L  
L6 180 S L1 AND L2  
L7 48 S L1 AND L2 AND L3  
L8 22 S L1 AND L2 AND L3 AND L4  
L9 7 S L1 AND L2 AND L3 AND L4 AND L5

FILE 'STNGUIDE' ENTERED AT 08:23:03 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:24:38 ON 29 MAY 2007

L10 81 S L6 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L11 18 S L7 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L12 3 S L8 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L13 1 S L9 AND (PY<2002 OR PRY<2002 OR AY<2002)

=> file hcaplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.84	0.84

FILE 'HCAPLUS' ENTERED AT 08:22:52 ON 29 MAY 2007  
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FILE COVERS 1907 - 29 May 2007 VOL 146 ISS 23  
FILE LAST UPDATED: 28 May 2007 (20070528/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s antibody

L1 311474 ANTIBODY

=> s (beta-glucan)

1455756 BETA  
14986 GLUCAN  
L2 4617 (BETA-GLUCAN)  
(BETA(W) GLUCAN)

=> s cancer or tumor or neoplas?

316729 CANCER  
408979 TUMOR  
494653 NEOPLAS?  
L3 754497 CANCER OR TUMOR OR NEOPLAS?

=> s monoclonal

L4 146686 MONOCLONAL

=> s GD2 or CD20 or EGFR or HER2 or neuroblastoma or melanoma or lymphona or epidermoid

2208 GD2  
3069 CD20  
8590 EGFR  
3603 HER2  
16553 NEUROBLASTOMA  
34665 MELANOMA  
5 LYMPHONA  
2337 EPIDERMOID  
L5 68113 GD2 OR CD20 OR EGFR OR HER2 OR NEUROBLASTOMA OR MELANOMA OR  
LYMPHONA OR EPIDERMOID

=> s L1 and L2

L6 180 L1 AND L2

=> s L1 and L2 and L3

L7 48 L1 AND L2 AND L3

=> s L1 and L2 and L3 and L4

L8 22 L1 AND L2 AND L3 AND L4

=> s L1 and L2 and L3 and L4 and L5

L9 7 L1 AND L2 AND L3 AND L4 AND L5

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	3.44

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: May 25, 2007 (20070525/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.18	3.62

FILE 'HCAPLUS' ENTERED AT 08:24:38 ON 29 MAY 2007  
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FILE COVERS 1907 - 29 May 2007 VOL 146 ISS 23  
FILE LAST UPDATED: 28 May 2007 (20070528/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L6 and (PY<2002 or PRY<2002 or AY<2002)

21897330 PY<2002  
3645664 PRY<2002

4174339 AY<2002  
L10 81 L6 AND (PY<2002 OR PRY<2002 OR AY<2002)

=> s L7 and (PY<2002 or PRY<2002 or AY<2002)

21897330 PY<2002  
3645664 PRY<2002  
4174339 AY<2002  
L11 18 L7 AND (PY<2002 OR PRY<2002 OR AY<2002)

=> s L8 and (PY<2002 or PRY<2002 or AY<2002)

21897330 PY<2002  
3645664 PRY<2002  
4174339 AY<2002  
L12 3 L8 AND (PY<2002 OR PRY<2002 OR AY<2002)

=> s L9 and (PY<2002 or PRY<2002 or AY<2002)

21897330 PY<2002  
3645664 PRY<2002  
4174339 AY<2002  
L13 1 L9 AND (PY<2002 OR PRY<2002 OR AY<2002)

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	6.22

FILE 'STNGUIDE' ENTERED AT 08:24:51 ON 29 MAY 2007  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: May 25, 2007 (20070525/UP).

<-----User Break----->

=> d L13 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L13 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Antitumor antibody-enhancing glucan  
AB This invention provides a composition comprising an effective amount of glucan capable of enhancing efficacy of antibodies. This invention further provides the above compns. and a pharmaceutically acceptable carrier. This invention also provides a method for treating a subject with cancer comprising administering the above-described composition comprising effective amount of glucan capable of enhancing efficacy of vaccines. This invention provides a composition comprising effective amount of glucan capable of enhancing efficacy of vaccines. This invention also provides a method of treating a subject comprising administering the above pharmaceutical composition to the subject. This invention provides a composition comprising effective amount of glucan capable of enhancing efficacy of natural antibodies. This invention provides a composition comprising effective amount of glucan capable of enhancing host immunity. This invention also provides a composition comprising effective amount of glucan capable of enhancing the action of an agent in preventing tissue rejection. It was shown that  $\beta$ -glucans greatly enhanced the antitumor effects of monoclonal antibodies against established

tumors in mice.  
 AN 2002:574940 HCAPLUS <<LOGINID::20070529>>  
 DN 137:119657  
 TI Antitumor antibody-enhancing glucan  
 IN Cheung, Nai-Kong V.  
 PA Sloan-Kettering Institute for Cancer Research, USA  
 SO PCT Int. Appl., 114 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002058711	A1	20020801	WO 2002-US1276	20020115 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2434938 A1 20020801 CA 2002-2434938 20020115 <-- AU 2002241905 A1 20020806 AU 2002-241905 20020115 <-- EP 1357919 A1 20031105 EP 2002-707502 20020115 <-- R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2004116379 A1 20040617 US 2003-621027 20030716 <-- US 2006020128 A1 20060126 US 2005-218044 20050831 <-- US 2006160766 A1 20060720 US 2006-334763 20060117 <-- PRAI US 2001-261911P P 20010116 <-- WO 2002-US1276 W 20020115 US 2003-621027 A1 20030716 WO 2004-US23099 A2 20040716 US 2005-218044 A2 20050831				

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d L12 1-3 ti

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L12 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Antitumor antibody-enhancing glucan

L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Clostridial neurotoxin targeted conjugates for inhibition of secretion  
 from non-neuronal cells

L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Polymeric drugs based on conjugates of synthetic and natural  
 macromolecules. II. Anti-cancer activity of antibody  
 or (Fab')<sub>2</sub>-targeted conjugates and combined therapy with immunomodulators

=> d L12 2 3 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Clostridial neurotoxin targeted conjugates for inhibition of secretion from non-neuronal cells

AB A method of treatment of disease by inhibition of cellular secretory processes is provided. The method has particular application in the treatment of diseases dependent on the exocytotic activity of endocrine cells, exocrine cells, inflammatory cells, cells of the immune system, cells of the cardiovascular system, and bone cells. Agents and compns. therefor, as well as methods for manufacturing these agents and compns., are provided. In a preferred embodiment a clostridial neurotoxin, substantially devoid of holotoxin binding affinity for neuronal cells of the presynaptic muscular junction, is associated with a targeting moiety. The targeting moiety is selected such that the clostridial toxin conjugate so formed may be directed to a non-neuronal target cell to which the conjugate may bind. Following binding, a neurotoxin component of the conjugate, which is capable of inhibition of cellular secretion, passes into the cytosol of the target cell by cellular internalization mechanisms. Thereafter, inhibition of secretion from the target cell is effected.

AN 2001:228744 HCAPLUS <<LOGINID::20070529>>

DN 134:247267

TI Clostridial neurotoxin targeted conjugates for inhibition of secretion from non-neuronal cells

IN Foster, Keith Alan; Chaddock, John Andrew; Purkiss, John Robert; Quinn, Conrad Padraig

PA Microbiological Research Authority, UK

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001021213	A2	20010329	WO 2000-GB3669	20000925 <--
	WO 2001021213	A3	20020711		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2383470	A1	20010329	CA 2000-2383470	20000925 <--
	EP 1235594	A2	20020904	EP 2000-962721	20000925 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003509476	T	20030311	JP 2001-524636	20000925 <--
	AU 782457	B2	20050728	AU 2000-74365	20000925 <--
	US 2003180289	A1	20030925	US 2002-88665	20020814 <--
	AU 2005227383	A1	20051124	AU 2005-227383	20051027 <--
	US 2006216283	A1	20060928	US 2006-327855	20060109 <--
PRAI	GB 1999-22554	A	19990923	<--	
	WO 2000-GB3669	W	20000925	<--	
	WO 2000-GB3681	A	20000925	<--	
	US 2002-88665	A1	20020814		

L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Polymeric drugs based on conjugates of synthetic and natural macromolecules. II. Anti-cancer activity of antibody or (Fab')<sub>2</sub>-targeted conjugates and combined therapy with immunomodulators

AB We provide data on in vivo targeting of the Thy 1.2 (CDw90) cell surface receptor expressed on neoplastic T cells, mouse EL4 T cell lymphoma. The targeting antibody and the anticancer drug,

doxorubicin (DOX) were conjugated to a water-soluble copolymer based on N-(2-hydroxypropyl)methacrylamide (HPMA) acting as a carrier responsible for controlled intracellular release of the conjugated drug. The in vivo therapeutic efficacy of HPMA copolymer-bound DOX targeted with anti-EL4 antibody, polyclonal anti-thymocyte globulin (ATG), monoclonal anti-Thy 1.2 antibody or its F(ab')<sub>2</sub> fragment was compared with the efficacy of DOX conjugated to HPMA copolymer containing nonspecific IgG or bovine serum albumin (BSA). Anti-EL4 antibody-targeted conjugate caused a significant retardation of tumor growth and an extension of the life span of treated mice. The effect was comparable with that of HPMA copolymer-bound DOX targeted with ATG, anti-Thy 1.2 antibody or its F(ab')<sub>2</sub> fragment. However, considerable antitumor effect was seen also in conjugates targeted instead of specific antibodies with syngeneic nonspecific IgG or BSA. Patients with advanced cancer are often immunocompromised due to dysfunction of their immune system induced by cancer and cytotoxic drugs. A significant decrease of unwanted side-effects of targeted drugs against a number of vital organs was already documented. In this study we have compared immunotoxic effects of free DOX with those of its antibody-targeted form on NK cells and cytolytic T lymphocytes (CTLs) isolated from C57BL/10 mice bearing EL4 T cell lymphoma. In the same model we have tested the combination therapy with immunomodulators (β-glucan or AM-2) injected together with targeted daunomycin. We have observed a significant protective effect of targeted DOX against NK cells and CTLs. Moreover, the data revealed that combination therapy considerably enhances antitumor efficacy of the targeted anticancer drug.

AN 2000:46595 HCAPLUS <<LOGINID::20070529>>

DN 132:284054

TI Polymeric drugs based on conjugates of synthetic and natural macromolecules. II. Anti-cancer activity of antibody or (Fab')<sub>2</sub>-targeted conjugates and combined therapy with immunomodulators  
 AU Rihova, B.; Jelinkova, M.; Strohal, J.; Subr, V.; Plocova, D.; Hovorka, O.; Novak, M.; Plundrova, D.; Germano, Y.; Ulbrich, K.

CS Institute of Microbiology, Academy of Sciences of the Czech Republic, Prague, 142 20, Czech Rep.

SO Journal of Controlled Release (2000), 64(1-3), 241-261  
 CODEN: JCREEC; ISSN: 0168-3659

PB Elsevier Science Ireland Ltd.

DT Journal

LA English

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l11 1-18 ti

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L11 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Therapy-enhancing glucan

L11 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Macrophage receptor Dectin-1

L11 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Antitumor antibody-enhancing glucan

L11 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Plants, polysaccharides, and the treatment and prevention of neoplasia

L11 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Clostridial neurotoxin targeted conjugates for inhibition of secretion from non-neuronal cells

L11 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Preparation of antibody against antitumor  $\beta$  - glucan in Grifola frondosa and its application

L11 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Immunopharmacological and immunotoxicological activities of a water-soluble (1  $\rightarrow$  3)- $\beta$ -D-glucan, CSBG from Candida spp

L11 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Failure in antitumor activity by overdose of an immunomodulating . beta.-glucan preparation, sonifilan

L11 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Polymeric drugs based on conjugates of synthetic and natural macromolecules. II. Anti-cancer activity of antibody or (Fab')<sub>2</sub>-targeted conjugates and combined therapy with immunomodulators

L11 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Antigen-specific response of murine immune system toward a yeast . beta.-glucan preparation, zymosan

L11 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Activation of murine macrophages by grifolan

L11 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Cellular requirements for immunomodulatory effects caused by cell wall components of Paracoccidioides brasiliensis on antibody production

L11 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Preparation and specificity of antibodies to an anti-tumor . beta.-glucan, lentinan

L11 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Covalently bound  $\beta$  -glucan conjugates with bioactive agents for targeted delivery

L11 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Interrelation of structure and antitumor effects of fungal (1 $\rightarrow$ 3)  $\beta$ -D-glucans.

L11 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Pulmonary metastases neutralization and tumor rejection by in vivo administration of  $\beta$  glucan and bispecific antibody

L11 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Straw mushroom, fukurotake, Volvariella volvacea

L11 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Antitumor and immunomodulating activities of a  $\beta$  - glucan obtained from liquid-cultured Grifola frondosa

=> d l11 4 6 7 8 10 11 13 14 16 17 18 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L11 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Plants, polysaccharides, and the treatment and prevention of



neoplasia

AB A review. Plants and Fungi have traditionally been the single largest source of lead compds. for the development of therapeutics by the pharmaceutical industry. Currently mushroom and plant polysaccharides brought to attention by Complementary and Alternative medicine, are undergoing scientific anal. and development to prevent and treat cancer. Two classes of saccharides are under investigation- beta glucan polysaccharides as biol. response modifiers for the adjuvant treatment of cancer and "Oligosaccharin"- related oligosaccharides for the prevention of sun-induced skin cancer. Beta glucans already in human trials in the Far East will require mechanistic pharmacol. studies and definition of structure function relationships before they are ready for clin. trials in the West. Other beta glucans that prime natural killer cells for antibody dependent cell-mediated cytotoxicity are approaching clin. trials. Oligosaccharides that downregulate production of immuno-suppressive cytokines by UV radiation injured keratinocytes are promising agents for the prevention of environmental skin cancer.

AN 2001:398732 HCAPLUS <<LOGINID::20070529>>  
DN 136:160666  
TI Plants, polysaccharides, and the treatment and prevention of neoplasia  
AU Pelley, Ronald P.; Strickland, Faith M.  
CS Pangea Phytoceuticals, Harlingen, TX, 78550, USA  
SO Critical Reviews in Oncogenesis (2000), 11(3&4), 189-225  
CODEN: CRONEI; ISSN: 0893-9675  
PB Begell House, Inc.  
DT Journal; General Review  
LA English  
RE.CNT 197 THERE ARE 197 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Preparation of antibody against antitumor  $\beta$  - glucan in Grifola frondosa and its application  
AB Antibodies against an antitumor  $\beta$  -glucan purified from Grifola frondosa (GGF) were raised in the rabbit by s.c. immunization. Our antibodies reacted significantly with GGF by an ELISA inhibition assay. The antibodies did not recognize other polysaccharides such as laminarin and pustulan, but reacted somewhat with lentinan, whose structure is similar to GGF. It was demonstrated that GGF could be measured by ELISA using antibodies. In addition, the effects of the storage temperature on GGF content during storage were measured using our antibody. GGF content was 24.7  $\mu\text{g/g}$  fresh weight (f.w.) at zero time storage, and little change occurred during storage of the mushroom for 7 days at 5°. However, a drastic decrease to 11.4  $\mu\text{g/g}$  f.w. occurred after 7 days of storage at 20°. These results suggest that storage at low temps. is desirable to maintain the quality of GGF.

AN 2000:308382 HCAPLUS <<LOGINID::20070529>>  
DN 133:320973  
TI Preparation of antibody against antitumor  $\beta$  - glucan in Grifola frondosa and its application  
AU Mizuno, Masashi; Yamakawa, Akio; Minato, Ken-Ichiro; Kawakami, Sachiko; Tatsuoka, Shigenobu; Terai, Hirofumi; Tsuchida, Hironobu  
CS Graduate School of Science and Technology, Kobe University, Kobe, 657-8501, Japan  
SO Food Science and Technology Research (1999), 5(4), 398-401  
CODEN: FSTRFS; ISSN: 1344-6606  
PB Japanese Society for Food Science and Technology  
DT Journal  
LA English  
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Immunopharmacological and immunotoxicological activities of a  
 water-soluble (1 → 3)-β-D-glucan, CSBG from *Candida* spp  
 AB We have established a convenient, two-step procedure to solubilize the  
 yeast cell wall (1→3)-β-D-glucan using the combination of  
 NaClO oxidation and DMSO extraction *Candida* soluble β-D-glucan (CSBG) was  
 mainly composed of a linear β-1,3 glucan with a linear  
 β-1,6-glucan moiety. In this study, we screened for several  
 immunopharmacol. activities of CSBG and found the following activities:  
 (1) interleukin-6 synthesis of macrophages in vitro; (2) antagonistic  
 effect for zymosan mediated-tumor necrosis factor synthesis of  
 macrophages; (3) augmentation for lipopolysaccharide mediated  
 tumor necrosis factor and nitrogen oxide syntheses of macrophages;  
 (4) activation of alternative pathway of complement; (5) hematopoietic  
 response on cyclophosphamide induced leukopenia; (6) the antitumor effect  
 on ascites form tumor; (7) Enhanced vascular permeability; (8)  
 priming effect on lipopolysaccharide triggered TNF-α synthesis; and  
 (9) adjuvant effect on antibody production These results strongly  
 suggested that CSBG possessed various immunopharmacol. activity.  
 AN 2000:235041 HCAPLUS <<LOGINID::20070529>>  
 DN 133:12504  
 TI Immunopharmacological and immunotoxicological activities of a  
 water-soluble (1 → 3)-β-D-glucan, CSBG from *Candida* spp  
 AU Tokunaka, Kazuhiro; Ohno, Naohito; Adachi, Yoshiyuki; Tanaka, Shigenori;  
 Tamura, Hiroshi; Yadomae, Toshiro  
 CS Laboratory for Immunopharmacology of Microbial Products, School of  
 Pharmacy, Tokyo University of Pharmacy and Life Science, Tokyo, 192-0392,  
 Japan  
 SO International Journal of Immunopharmacology (2000), 22(5),  
 383-394  
 CODEN: IJIMDS; ISSN: 0192-0561  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
 TI Failure in antitumor activity by overdose of an immunomodulating .  
 beta.-glucan preparation, sonifilan  
 AB Schizophyllan (SPG, Sonifilan) is a soluble (1→3)-β-D-glucan,  
 used as a biol. response modifier (BRM) with radiation therapy for  
 cancer treatment in Japan. The mechanism of SPG-mediated  
 antitumor activity is thought to be via immune stimulation, which includes  
 cytokine production, hematopoietic response, and so on. In this paper, we  
 found that the activity of SPG was quite long-lived and an overdose  
 significantly failed to display the antitumor activity. To demonstrate  
 the mechanism several parameters were examined using a high dose of SPG  
 administration as follows: i) the effect on vascular permeability in vivo,  
 ii) the priming effect on tumor necrosis factor (TNF-α)  
 production in vivo, iii) the effect on macrophage adherence to plastic plate  
 in vitro, and iv) anti-Sarcoma 180 antibody production in vivo. It  
 was evident that vascular permeability and anti-Sarcoma 180  
 antibody production remained unchanged, but TNF-α production and  
 adherence to a plastic plate was significantly reduced by a high dose of  
 SPG. These facts strongly suggested that modulation of the cytokine  
 syntheses and the leukocyte traffic would be the causative mechanisms of  
 the failure of antitumor activity by an overdose of SPG.  
 AN 2000:97854 HCAPLUS <<LOGINID::20070529>>  
 DN 132:245973  
 TI Failure in antitumor activity by overdose of an immunomodulating .  
 beta.-glucan preparation, sonifilan  
 AU Miura, Toshihide; Miura, Noriko N.; Ohno, Naohito; Adachi, Yoshiyuki;  
 Shimada, Shigehiko; Yadomae, Toshiro

CS Laboratory for Immunopharmacology of Microbial Products, School of  
Pharmacy, Tokyo University of Pharmacy and Life Science, Tokyo, 192-0392,  
Japan  
SO Biological & Pharmaceutical Bulletin (2000), 23(2), 249-253  
CODEN: BPBLEO; ISSN: 0918-6158  
PB Pharmaceutical Society of Japan  
DT Journal  
LA English

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Antigen-specific response of murine immune system toward a yeast .  
beta.-glucan preparation, zymosan

AB Zymosan, a particulate  $\beta$ -glucan preparation from  
*Saccharomyces cerevisiae*, shows various biol. activities, including anti-  
tumor activity. We have previously shown that soluble .beta  
.-glucan initiated anti-tumor activity was long-lived  
and was effective even by prophylactic treatment at 1 mo prior to  
tumor challenge. However, the activity by zymosan was relatively  
short-lived. Antigen-specific responses of mice to zymosan might be a  
causative mechanism. In this paper, mice were immunized with zymosan and  
antibody production and antigen-specific responses of lymphocytes to  
zymosan were analyzed. Sera of zymosan immune mice contained  
zymosan-specific IgG assessed by ELISA and FACS. Spleen and bone marrow  
cells of zymosan-immune mice showed higher cytokine production in response to  
zymosan. Specificity of zymosan-specific responses were also analyzed  
using various derivs. prepared from zymosan. These facts strongly suggested  
that mice recognize zymosan as antigen in addition to non-specific immune  
stimulant.

AN 1999:311543 HCAPLUS <<LOGINID::20070529>>

DN 131:128740

TI Antigen-specific response of murine immune system toward a yeast .  
beta.-glucan preparation, zymosan

AU Miura, T.; Ohno, N.; Miura, N. N.; Adachi, Y.; Shimada, S.; Yadomae, T.

CS School of Pharmacy, Laboratory for Immunopharmacology of Microbial  
Products, Tokyo University of Pharmacy and Life Science, Hachioji, Tokyo,  
192-0392, Japan

SO FEMS Immunology and Medical Microbiology (1999), 24(2), 131-139

CODEN: FIMIEV; ISSN: 0928-8244

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Activation of murine macrophages by grifolan

AB A gel-forming (1 $\rightarrow$ 3)- $\beta$ -D-glucan, grifolan (GRN) from an edible  
mushroom (*Grifola frondosa*), enhances various immunol. activities. Here,  
effect of GRN on the induction of cytokines and nitric oxide by macrophage  
(MP) cell line (RAW264.7), peritoneal MP (PM), and Kupffer cell is shown.  
GRN bound to MP was detected immunohistochem., using an anti-GRN  
antibody. GRN could induce production of TNF $\alpha$ , IL-1 $\alpha$ , and  
IL-6 by RAW264.7. Incubation with GRN also induced those cytokines in PM.  
GRN induced phosphorylation of MAP kinase and p38 of PM. The kinetic  
study on the activation of Kupffer cells revealed that GRN could induce  
enhanced production of cytokines and nitric oxide on days 4-7 after i.v.  
administration of GRN. Cytostatic activity of Kupffer cells against  
murine lymphoma, EL-4, was also augmented by GRN with similar time course  
to nitric oxide production. The cytostatic activity was dependent on nitric  
oxide, since an iNOS inhibitor diminished the cytostatic activity.  
Administration of GRN increased expression of CD11b, known as the .  
beta.-glucan receptor, on Kupffer cells on day 7.

Apparently, GRN can activate murine MPs to enhance production of cytokines and nitric oxide.

AN 1998:453248 HCAPLUS <<LOGINID::20070529>>

DN 129:211409

TI Activation of murine macrophages by grifolan

AU Adachi, Y.; Takano, E.; Ohno, N.; Yadomae, T.

CS School of Pharmacy, Tokyo University of Pharmacy and Life Science, Tokyo, Japan

SO Proceedings - Beltwide Cotton Conferences (1998), (Vol. 1), 262-266

CODEN: PCOCEN; ISSN: 1059-2644

PB National Cotton Council

DT Journal

LA English

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation and specificity of antibodies to an anti-tumor .  
beta.-glucan, lentinan

AB Antibodies against  $\beta$  -glucan, lentinan from  
"Shiitake" (*Lentinus edodes*), were raised in the rabbit by s.c.  
immunization. Our antibodies reacted significantly with lentinan by  
inhibition assay of ELISA. The antibodies did not recognize the other  
polysaccharides such as amylose, dextran, laminarin and galactan. It was  
proved that lentinan contents in mushroom could be measured by ELISA with  
the anti-lentinan antisera. Its contents were 3.5 mg/g fresh weight in  
*Lentinus edodes*. However, lentinan was not contained in *Agaricus brazei*,  
*Agaricus bisporus* and *Romania bitrytis*.

AN 1997:90871 HCAPLUS <<LOGINID::20070529>>

DN 126:170161

TI Preparation and specificity of antibodies to an anti-tumor .  
beta.-glucan, lentinan

AU Mizono, Masashi; Minato, Ken-ichiro; Tsuchida, Hironobu

CS Grad. Sch. Sci. and Tech., Kobe Univ., Kobe, 657, Japan

SO Biochemistry and Molecular Biology International (1996), 39(4), 679-685

CODEN: BMBIES; ISSN: 1039-9712

PB Academic

DT Journal

LA English

L11 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Covalently bound  $\beta$  -glucan conjugates with  
bioactive agents for targeted delivery

AB A glucan composition is disclosed which contains a  $\beta$ -1,3-glucan covalently  
attached to a bioactive agent. The  $\beta$ -1,3-glucan is attached to the  
bioactive agent by means of a hydrolyzable covalent linkage to form a  
glucan/agent complex. Also disclosed are methods relating to the complex  
of the invention, including a method for the treatment of a pathogen  
capable of invading or colonizing phagocytic cells, and a method for  
delivering an antigen to a phagocytic cell. Purification of glucan from  
*Euglena gracilis* is described. Also described is e.g. preparation of a  
 $\beta$ -1,3-glucan conjugate with herpes simplex virus gD2 glucoprotein.  
The conjugate had enhanced adjuvant activity.

AN 1996:462438 HCAPLUS <<LOGINID::20070529>>

DN 125:105156

TI Covalently bound  $\beta$  -glucan conjugates with  
bioactive agents for targeted delivery

IN Tuse, Daniel; Mohagheghpour, Nahid; Dawson, Marcia; Hobbs, Peter; Winant,  
Richard

PA Sri International, USA

SO PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9614873	A2	19960523	WO 1995-US14800	19951114 <--
	WO 9614873	A3	19960829		
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1994-340831	A	19941116 <--		

L11 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Pulmonary metastases neutralization and tumor rejection by in vivo administration of  $\beta$  glucan and bispecific antibody

AB Bispecific antibody (BsAb) with specificity for tumor cell surface antigen and the CD3 mol. on T cells can redirect activated T cells to lyse tumor cells. Since the ex vivo expansion and activation of T cells is impractical and ineffective for treating established tumors, the authors tested whether the immune stimulant . beta. glucan could in situ-activate T cells, which could secondarily be retargeted with BsAbs to lyse tumor cells. To test for tumor neutralization, C3H/HeN mice were injected i.v. with Cl-62 melanoma cells and immediately treated with i.p. .beta . glucan and/or anti-CD3 (500A2) + anti-p97 (96.5) F(ab')<sub>2</sub> BsAb i.v. Pulmonary metastases were counted 14 days later. To test for tumor rejection and survival in a solid tumor model, mice were injected s.c. and i.p. with Cl-62 cells and 7 days later administered  $\beta$  glucan i.p. and/or F(ab')<sub>2</sub> BsAb i.v. In the neutralization model, there was a significant reduction in the number of metastases in the  $\beta$  glucan + BsAb group, as compared with controls, and with  $\beta$  glucan alone. In the established tumor model,  $\beta$  glucan + BsAb reduced the incidence of s.c. tumors as compared with control, BsAb alone, and  $\beta$  glucan alone. It also prolonged survival of tumor-bearing mice compared with control, BsAb alone, and  $\beta$  glucan alone. Thus, T cells can be activated in vivo by  $\beta$  glucan and retargeted with F(ab')<sub>2</sub> BsAb.

AN 1996:160223 HCAPLUS <<LOGINID::20070529>>

DN 124:257967

TI Pulmonary metastases neutralization and tumor rejection by in vivo administration of  $\beta$  glucan and bispecific antibody

AU Penna, Christophe; Dean, Phillip A.; Nelson, Heidi

CS Department Surgery, Mayo Clinic and Mayo Foundation, Rochester, MN, 55905, USA

SO International Journal of Cancer (1996), 65(3), 377-82  
CODEN: IJCNW; ISSN: 0020-7136

PB Wiley-Liss

DT Journal

LA English

L11 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Straw mushroom, fukurotake, Volvariella volvacea

AB A review with 14 listed refs. on the systematic fractionation and structural diversity of branched (1 $\rightarrow$ 3)-  $\beta$  - glucan of fukurotake, chemical modification in relation to immunomodulating mechanism of the glucans, antibodies to the glucans and their application in studies of neoplasm inhibition.

AN 1995:536205 HCAPLUS <<LOGINID::20070529>>

DN 123:141915

TI Straw mushroom, fukurotake, Volvariella volvacea

AU Misaki, Akira; Kishida, Etsu

CS Osaka City University, Ashiya, 659, Japan  
SO Food Reviews International (1995), 11(1), 219-23  
CODEN: FRINEL; ISSN: 8755-9129  
DT Journal; General Review  
LA English

L11 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Antitumor and immunomodulating activities of a  $\beta$  -  
glucan obtained from liquid-cultured Grifola frondosa  
AB The effects of the  $\beta$ -1,3-glucan, LELFD, obtained from liquid-cultured  
mycelium of G. frondosa, on the growth of syngeneic tumors and immune  
responses in mice were examined. In Meth A fibrosarcoma or IMC carcinoma  
solid tumor systems, LELFD administered i.p. or intralesionally  
(i.l.) exhibited significant antitumor effects. However, the growth of  
L1210 and P388 leukemias was unaffected by the injection of LELFD. The  
injection of LELFD i.p. enhanced the activities of natural killer cells  
and macrophages in mice. LELFD also enhanced the antibody  
response when it was injected i.p. with sheep red blood cells into mice.  
Furthermore, it was found that LELFD could activate complement pathway.  
AN 1989:185485 HCAPLUS <<LOGINID::20070529>>  
DN 110:185485  
TI Antitumor and immunomodulating activities of a  $\beta$  -  
glucan obtained from liquid-cultured Grifola frondosa  
AU Suzuki, Iwao; Hashimoto, Koichi; Oikawa, Shozo; Sato, Kichiro; Osawa,  
Masumi; Yadomae, Toshiro  
CS Tokyo Coll. Pharm., Hachioji, 192-03, Japan  
SO Chemical & Pharmaceutical Bulletin (1989), 37(2), 410-13  
CODEN: CPBTAL; ISSN: 0009-2363  
DT Journal  
LA English

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.06	66.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

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FILE LAST UPDATED: 28 May 2007 (20070528/ED)

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=> s l11 and oral  
311474 ANTIBODY  
1455756 BETA  
14986 GLUCAN  
4617 (BETA-GLUCAN)  
(BETA(W) GLUCAN)  
316729 CANCER  
408979 TUMOR  
494653 NEOPLAS?  
21897330 PY<2002  
3645664 PRY<2002  
4174339 AY<2002  
207085 ORAL  
L14 1 L11 AND ORAL

=> d l14 ti

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Therapy-enhancing glucan

=> d his

(FILE 'HOME' ENTERED AT 08:20:33 ON 29 MAY 2007)

FILE 'HCAPLUS' ENTERED AT 08:22:52 ON 29 MAY 2007

L1 311474 S ANTIBODY  
L2 4617 S (BETA-GLUCAN)  
L3 754497 S CANCER OR TUMOR OR NEOPLAS?  
L4 146686 S MONOCLONAL  
L5 68113 S GD2 OR CD20 OR EGFR OR HER2 OR NEUROBLASTOMA OR MELANOMA OR L  
L6 180 S L1 AND L2  
L7 48 S L1 AND L2 AND L3  
L8 22 S L1 AND L2 AND L3 AND L4  
L9 7 S L1 AND L2 AND L3 AND L4 AND L5

FILE 'STNGUIDE' ENTERED AT 08:23:03 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:24:38 ON 29 MAY 2007

L10 81 S L6 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L11 18 S L7 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L12 3 S L8 AND (PY<2002 OR PRY<2002 OR AY<2002)  
L13 1 S L9 AND (PY<2002 OR PRY<2002 OR AY<2002)

FILE 'STNGUIDE' ENTERED AT 08:24:51 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:25:06 ON 29 MAY 2007

FILE 'STNGUIDE' ENTERED AT 08:25:07 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:25:17 ON 29 MAY 2007

FILE 'STNGUIDE' ENTERED AT 08:25:17 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:25:34 ON 29 MAY 2007

FILE 'STNGUIDE' ENTERED AT 08:25:35 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:26:36 ON 29 MAY 2007

FILE 'STNGUIDE' ENTERED AT 08:26:37 ON 29 MAY 2007

FILE 'HCAPLUS' ENTERED AT 08:28:09 ON 29 MAY 2007

FILE 'STNGUIDE' ENTERED AT 08:28:10 ON 29 MAY 2007

FILE 'CAPLUS' ENTERED AT 08:28:15 ON 29 MAY 2007

L14 1 S L11 AND ORAL

=> log hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	20.91	87.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

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STN INTERNATIONAL SESSION SUSPENDED AT 08:28:33 ON 29 MAY 2007

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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FILE 'CAPLUS' ENTERED AT 09:32:29 ON 29 MAY 2007  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	20.91	87.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	21.38	87.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

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=> s oral

L15 207085 ORAL

=> s L10 and L15

L16 3 L10 AND L15

=> file stnguide

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	ENTRY	SESSION
FULL ESTIMATED COST	2.60	90.50
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

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LAST RELOADED: May 25, 2007 (20070525/UP).

=> d l16 1-3 ti

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L16 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Therapy-enhancing glucan

L16 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Immortal cell line derived from the grouper *Epinephelus coioides* and the applications thereof

L16 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Treatment of fungal infections with polyene or beta glucan synthase inhibitor antifungals combined with anti HSP90 antibodies

=> d l16 2 3 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L16 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN  
TI Immortal cell line derived from the grouper *Epinephelus coioides* and the applications thereof  
AB The invention comprises the generation of antibodies against nervous necrosis virus (NNV) and infectious pancreatic necrosis (IPNV) virus. The